

ATTORNEY DOCKET NO.
2001P14199US

PATENT APP. SERIAL NO.
09/921,083

CLAIM AMENDMENTS:

Please cancel claim 11-15 and amend claim 16 as follows:

Claims 1-10 (withdrawn)

Claims 11-15 (canceled)

Claim 16. (currently amended) A sectioned conductor for accommodating stress forces with substantially reduced internal deformation while providing a conductive path between a rotor coil and a radial stud in a power generator, the sectioned conductor comprising:

a first sectioned member connected to the radial stud; and

a second sectioned member electrically connected to the first sectioned member and adapted to remain electrically connected thereto when moving relative to the first sectioned member in response to stress forces to thereby reduce internal deformation of the sectioned conductor. A sectioned conductor as defined in Claim 11,

wherein the first sectioned member comprises an axial portion adapted to be connected to the rotor shaft and to the radial stud extending into the rotor shaft and a radial portion extending outwardly from the axial portion in a radial direction relative to the lengthwise extent of the rotor shaft, and wherein the second sectioned member comprises a first end adapted to be connected to the at least one rotor coil and a second end through which a bore extends thereby defining a substantially hollow conductor channel having at least three sides to at least partially receive therein the axial portion of the first sectioned member.

Claim 17. (original) A sectioned conductor as defined in Claim 16, wherein the radial portion of the first sectioned member is electrically connected to the second sectioned member by at least one strip spring having a first connection connected to a surface of the conductor

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channel into which the radial portion of the first member at least partially extends and having a second opposing connection connected to the radial portion of the first sectioned member of the elastic conductor.

Claim 18. (original) A sectioned conductor as defined in Claim 17, wherein the first sectioned member and the second sectioned member are each formed of a material having low ohmic resistance to thereby reduce current-induced temperature effects in the sectioned conductor when the sectioned conductor conducts electrical current between the radial stud and the at least one rotor coil.

Claim 19. (original) A sectioned conductor as defined in Claim 18, wherein the sectioned conductor further comprises a structural support having a first end connected to the first sectioned member of the sectioned conductor and a second end connected to the rotor to which the first sectioned member of the sectioned conductor is connected to thereby provide enhanced mechanical support to the sectioned conductor.

Claim 20. (original) A sectioned conductor as defined in Claim 19, wherein the sectioned conductor further comprises an open groove extending through a portion of the second sectioned member of the sectioned conductor, a portion of the first sectioned member of the sectioned conductor extending into the groove and being electrically connected to a surface portion of the groove and the first end of the structural support extending into the groove and fixedly connecting to the portion of the first sectioned member positioned therein such that the second sectioned member

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is able to move relative to first section freely and unobstructed by the first end of the support structure in response to stress forces.